

### AMENDMENT TO THE CLAIMS

13. (Previously amended) A process for coating particles comprising:

providing an insert within an upward flowing fluid bed dryer or granulator with a screen across the bottom of the dryer or granulator, the insert comprising a vertically adjustable cylindrical partition located substantially on a vertical axis of the granulator or dryer, a spray nozzle with a heated liquid line and an atomizing gas line connected thereto which is positioned such that a liquid is sprayed within the adjustable cylindrical partition at a selected temperature, the spray nozzle being positioned in a non-heat conducting relation to the bottom screen, the spray nozzle being located substantially on the vertical axis;

loading the dryer with a bed particles;

adjusting the cylindrical partition such that the position of the top of the cylindrical partition is above the bed of particles and product can be removed from the dryer;

adjusting the spray nozzle such that a spray zone is created within the cylindrical partition;

providing a gas to fluidize the bed of particles through the bottom screen;

providing an atomizing gas which is processed through the spray nozzle;

providing the liquid at the selected temperature in the heated liquid line which is atomized through the spray nozzle;

contacting the particles with the liquid from the spray nozzle within the cylindrical partition and spray zone;

drying the particles in an area outside the partition;

circulating the particles from the fluidized bed up through the cylindrical partition, down through the drying zone and back into the fluidized bed until a selected amount of liquid is coated onto the particles; and

wherein an inlet air temperature, a product temperature, a spray liquid temperature, a spray nozzle temperature, an atomizing air temperature, a spray liquid line temperature, a coating zone temperature, a fluidizing gas flow, and atomizing gas

pressure are monitored.

14. (Original) The process of claim 13 wherein the liquid is provided for coating particles.

15. (Original) The process of claim 13 wherein the liquid is provided to agglomerate the particles.

16. (Original) The process of claim 14 wherein the liquid for coating the particles includes a liquid fat or hot melt.

17. (Original) The process of claim 13 wherein the cylindrical partition has a diameter to length ratio greater than or equal to 1.

18. (Original) The process of claim 13 wherein the spray nozzle is adjustable along the vertical axis such that the top of the nozzle is positionable within the cylindrical partition or below the bottom edge of the cylindrical partition.

19. (Original) The process of claim 13 wherein an inlet air temperature, a product temperature, a spray liquid temperature, a spray nozzle temperature, an atomizing air temperature, a spray liquid line temperature, a coating zone temperature, a fluidizing gas flow, and atomizing gas pressure are monitored.

26. (Previously amended) A process for coating particles comprising:

providing a cylindrical insert whose central axis is disposed in a vertical direction within an upward flowing fluid bed dryer such that fluidized particles within the fluid bed dryer travel upwardly through the insert, and a spray nozzle supplied with a heated liquid sustained at a selected temperature with a heated liquid line such that the liquid is sprayed within the cylindrical insert, and the spray nozzle being disposed in a non-heat conducting relation with regard to a bottom screen within

the fluid bed dryer, the spray nozzle being located substantially along the central axis of the cylindrical insert;  
loading the dryer with particles to be coated;  
adjusting the cylindrical partition's vertical position within the fluid bed dryer;  
adjusting the spray nozzle such that a spray zone is created within the cylindrical insert;  
fluidizing the particles with a gas stream in an upward direction such that particles travel through the cylindrical insert;  
providing an atomized liquid at the selected temperature through the spray nozzle to coat the particles within the cylindrical insert;  
permitting the particles to dry outside of the cylindrical partition;  
recirculating the particles through the cylindrical insert until a selected amount of liquid is coated on the particles; and  
wherein an inlet air temperature, a product temperature, a spray liquid temperature, a spray nozzle temperature, an atomizing air temperature, a spray liquid line temperature, a coating zone temperature, a fluidizing gas flow, and atomizing gas pressure are monitored.

27. (Original) The process of claim 26 wherein the liquid for coating the particle includes a liquid fat or hot melt.

28. (Original) The process of claim 26 wherein the spray nozzle is positionable within the cylindrical insert or below the bottom edge of the cylindrical insert.

29. (Original) The process of claim 13 wherein the cylindrical insert is positioned so that coated particles can be withdrawn from the dryer without having to remove the insert.

30. (Previously amended) A method for coating particles within a dryer that is capable of fluidizing a bed of particles, the method comprising:

positioning a cylindrical partition having an axis extending concentrically therein such that the axis is disposed vertically with respect to upward flow of gas through the cylindrical partition creating a coating zone within the partition and above the partition and a drying zone outside of the coating zone;

positioning a spray nozzle along the axis of the cylindrical partition for spraying a coating solution onto the particles such that the spray from the nozzle coats the particles within the partition and in an area above the partition;

supplying the coating solution to the spray nozzle at a selected temperature via a heated line;

fluidizing the bed of particles such that particles flow through the partition in an upward fashion for coating and travel upwardly and outside of the coating zone and then downwardly settling outside of the partition and coating zone for drying creating a coating cycle;

repeating the coating cycle until a selected amount of coating is placed onto the particle;

and

wherein an inlet air temperature, a product temperature, a spray liquid temperature, a spray nozzle temperature, an atomizing air temperature, a spray liquid line temperature, a coating zone temperature, a fluidizing gas flow, and atomizing gas pressure are monitored.